

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Raulf M. Polichar et al.

Application No. 10/822,727

Filed: April 13, 2004

For: NEUTRON DETECTOR WITH
LAYERED THERMAL-
NEUTRON SCINTILLATOR
AND DUAL FUNCTION LIGHT
GUIDE AND THERMALIZING
MEDIA

Confirmation No.: 2863

Group Art Unit: 2878

Examiner: TBD

Atty Docket: 000479.00116

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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TC 1700

Sir:

Pursuant to the duty of disclosure under 37 CFR §§ 1.56 and 1.97-1.98, the documents listed on the attached Forms PTO/SB/08a and PTO/SB/08b are being brought to the attention of the Examiner in charge of the above-identified application.

The Examiner is respectfully requested to initial the space adjacent the document entries on Forms PTO/SB/08a and PTO/SB/08b and return a copy of the initialed Forms PTO/SB/08a and PTO/SB/08b to confirm that the documents have been considered and have been officially made of record in this application.

If the Examiner has any questions or wishes to discuss this application, the Examiner is invited to telephone the undersigned representative at the number set forth below.

Information Disclosure Statement
10/822,727

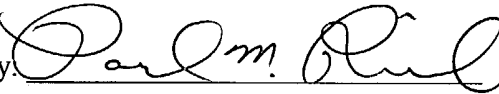
The accompanying Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. Therefore, no fee is believed due at this time. However, the Commissioner is authorized to charge any fees that may be required to our Deposit Account No. 19-0733.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Date: July 6, 2004

1001 G Street N.W.
11th Floor
Washington, D.C. 20001
(202) 824-3000

By: 

Paul M. Rivard
Registration No. 43,446

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Substitute for form 1449A

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	2
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Complete if Known

<i>Application Number</i>	10/822,727
<i>Filing Date</i>	04/13/2004
<i>First Named Inventor</i>	Raulf M. Polichar et al.
<i>Art Unit</i>	TBD
<i>Examiner Name</i>	TBD
<i>Attorney Docket Number</i>	000479.00116

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number	10/822,727
Filing Date	4/13/2004
First Named Inventor	Raulf M. Polichar et al.
Art Unit	TBD
Examiner Name	TBD
Attorney Docket Number	000479.00116

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Data Sheet 6 entitled "ZnS:Ag/LiF Screens, Neutron Imaging and Detection," Levy Hill Laboratories, one page	
		"BC-704 and BC-705 For Neutron Radiography," Saint-Gobain, Crystals & Detectors, June 2002, two pages	
		"Neutron Counting, Detector Applications Information Note," Saint-Gobain, Crystals & Detectors, two pages, March 2003	
		"BC-702 Thermal Neutron Detector," Saint-Gobain, Crystals & Detectors, June 2002, two pages	
		KIM, G.N., LEE, Y.S., CHO, M.H., KANG, H.S., KO, I.S., and NAMKUNG, W., "Current Status of Pohang Neutron Facility," four pages	
		"Neutron Radiography," printed 2/3/04 from web site, 5 pages	
		SENGUTTUVAN, N., ISHII, M., SHIMOYAMA, M., KOBAYASHI, M., TSUTSUI, N., NIKL, M., DUSEK, M., SHIMIZU, H.M., OKU, T., ADACHI, T., SAKAI, K., and SUZUKI, J., "Crystal growth and luminescence properties of Li ₂ B ₄ O ₇ single crystals doped with Ce, In, Ni, Cu and Ti ions," Elsevier Science, pgs. 1-5	
		YAMANE, Y., URITANI, A., ISAWA, T., KARLSSON, J.K.-H., and PÁZIT, "Measurement of the thermal and fast neutron flux in a research reactor with a Li and Th loaded optical fibre detector," Elsevier Science, 1999, pgs. 403-409	
		RYZHIKOV, V., CHERNIKOV, V., NAGORNAYA, L., STARZHINSKIY, N., LISETSKAYA, E., and DANSHIN, E., "Oxide and Semiconductor Scintillators in Scintillelectronic Detectors for Detection of Neutrons," printed 2/3/04 from web site, eight pages	
		FISHBINE, BRIAN, "A Modular Neutron Detector, Los Angeles National Laboratory, printed from web site 2/3/04, five pages	
		"Lithium glass scintillators," Bicon, 1997, two pages	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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